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INTERNATIONAL SEARCHING	G AUTHORITY
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То:					PCT		
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	see form	PCT/ISA/220			WRITTEN OPINION OF THE		
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				(PCT Rule 43 <i>bis</i> .1)			
				Date of mailing			
L				(day/month/year) see	e form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220			FOR FURTHER ACTION See paragraph 2 below				
	mational application I		International filing date (d	layinonthiyear)	Priority date (day/month/year)		
PC	T/US2004/02391	7	22.07.2004		13.08.2003		
	International Patent Classification (IPC) or both national classification and IPC C07C19/08, C07C19/10, C07C21/18						
	licant BU SERVICES, I	INC.					
Г <u>. </u>							
1	This opinion co	ontains indicatir	ons relating to the follo	owing items:	·		
	Box No. I	Basis of the op	nion				
	☐ Box No. []	Priority					
	☐ Box No. III			rd to novelty, inventive	e step and industrial applicability		
	Box No. IV	Lack of unity of					
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI	Certain docume	ents cited				
	Box No. VII		s in the international appli				
	☐ Box No. VIII	Certain observ	ations on the Internationa	al application			
2.	FURTHER ACTI	ION					
	If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the international Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 65.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	submit to the IPE	EA a written reply date of mailing o	v together, where approp	oriate with amendmen	PEA, the applicant is invited to nts, before the expiration of three of 22 months from the priority date,		
	For further option	ns, see Form PC	;T/ISA/220.				
3.	. For further details, see notes to Form PCT/ISA/220.						
			•				
			•				

Name and mailing address of the ISA:

9))

European Patent Office D-80298 Minich Tel. +49 89 2399 - 0 Tx: 523856 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

_								
_	Во	x No.	Basis of the opinion					
1.	Withe	th rega langu	rd to the language, this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item.					
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).							
2.	Wit	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:							
		□ a:	sequence listing					
	1	□ tal	ple(s) related to the sequence listing					
	b. format of material:							
	1	□ in	written format					
	1	□ in	computer readable form					
	c. time of filing/furnishing:							
	[□ ∞	ntained in the international application as filed.					
	[□ file	d together with the international application in computer readable form.					
	£	⊃ fur	nished subsequently to this Authority for the purposes of search.					
3.		copies	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as oriate, were furnished.					
4.	Additional comments:							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-83

Inventive step (IS)

Yes: Claims

Claims

1-83

Industrial applicability (IA)

Yes: Claims

No:

1-83

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/023917

D1: WO 03/029173 A (PCBU SERVICES INC) 10 April 2003 (2003-04-10)

D2: EP-A-0 434 409 (DU PONT) 26 June 1991 (1991-06-26)

D3: EP-A-0 253 410 (AUSIMONT SPA) 20 January 1988 (1988-01-20)

D4: US-B1-6 291 729 (RAO V N MALLIKARJUNA) 18 September 2001 (2001-09-18)

Section V.

- The claims lack novelty as detailed in the search report or are considered to relate to subject-matter which is trivial in view of the novelty destroying embodiments of the prior art.
- 2). Where conditions presently claimed include reaction conditions of the prior art, but the co-formation of particular products, e.g. olefins is not specifically mentioned in the prior art, the burden of proof is considered to lie with the applicant that such products are not also formed in the prior art.
- Reactions presently claimed catalysed by a mixture of Cu and Pd have been performed in the prior art: see the 6th to 8th entries on p.39 of D1 and p.9, lines 31-35 of D2. Claims relating to such reactions are therefore not novel.
- 4). Inter alia run no.1 in column 3 of D4 relates to a presently claimed reaction catalysed by Pd and conducted in a Nickel tube. This is considered novelty destroying for the Pd/Ni catalysed embodiment of present claim 7.
- 5). Present reactions catalysed by a combination of Cu and Pd are suggested by D1 inter alia as detailed above, p.9, lines 31-35 of D2 and claim 1 of D3. Insofar as particular ratios of these elements are to be used as a catalyst, it is not apparent how this is inventive.
- 6). Combinations of Ni and Pd as catalyst in the present type of reactions are suggested by claim 1 of D3. It is not apparent how these are presently inventive.